ENVIRONMENTAL CHEMISTS

Date of Report: 10/22/97 Date Received: 10/14/97

Project: Silver Recovery, PO #M58728 Date Samples Extracted: 10/15/97 Date Extracts Analyzed: 10/17/97

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR SILVER USING METHOD 6010 Samples Processed Using Method 3005A Results Reported as mg/L (ppm)

Sample ID

M58728

Silver

Monthod Blank

<0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 10/22/97 Date Received: 10/14/97

Project: Silver Recovery, PO #M58728

QUALITY ASSURANCE RESULTS FOR SILVER BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 710068-01 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Silver	mg/L (ppm)	30	30	0	0-20

Laboratory Code: 710068-01 (Matrix Spike)

	Reporting	Spike	Sample	% R	ecovery	Acceptance	Relative Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
Silver	mg/L (ppm)	2	30	ai	ai	80-120	ai

Laboratory Code: LCS

	Reporting	Spike	% R	ecovery	Acceptance	Relative Percent
Analyte:	Units	Level	MS	MSD	Criteria	Difference
Silver	mg/L (ppm)	2	105	106	80-120	1

ai - The amount spiked was insufficient to give meaningful recovery.data.

CIRTEUMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

FORMS/COC

PJ# 710068

SAMPLE CHAIN OF CUSTODY

10.14.97 11:30

Send Report To: ALAS	KAN Copper	· Works		Contact	GEROLD Thom	Pson
Address 628 H	Antone ST					
Tity, State, Zip Sex		98134				~
Phone # (206) 380	5-8379	FAX #(206) 51	72-4309	Date 10-14-	77
SITE NO.		PROJE	ÇT NAME	·	PURCHASE ORDE	<u>R # * * * * * * * * * * * * * * * * * * </u>
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SAMPLERS (signature)					PROJECT LOCAT	ION'
3/5		<u> </u>		J.	3200 6th Aves	<u> </u>
REMARKS /					SAMPLE DISPOSAL INFO	RMATION
Rush Pleas	e Sax Pes. 382-4309	,145 , or G	me Ven	tols	Return Samples	
	Date/Time	Type of	# of	Lab	Analyse	
Sample #	Sampled	Sample	Jars	Sample #	Requeste	
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Received by:				· · · · · · · · · · · · · · · · · · ·		
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 22, 1997

DUPLICATE COPY

INVOICE #97ACU1022-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Silver Recovery, PO #M58728: Results of testing requested by Gerry Thompson for material submitted on October 14, 1997.

1 water sample analyzed for Silver				1884
using Method 6010 @ \$35 per sample			\$ 38	5.00
Amount Due	AND THE STATE	refilling the San	\$ 3	5.00

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 22, 1997

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 14, 1997 from your Silver Recovery, PO #M58728 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

Enclosures ACU1022R.DOC